**Welcome to CAD I**

The intention of this class is to introduce you to computer drafting—drawing things using a computer. Primarily this is used for technical purposes like developing a new ‘thing’, be it a toothbrush or aircraft. Engineers, scientists, inventors, architects, and even gamers use the techniques learned in this class.

Class Website: https://ia-nystrom.wikispaces.com/CAD+I

**Student objectives for the semester:**

* Basics of the software
  + Open the program
  + Name files
  + Learn the ribbon bar and keypad shortcuts
  + Set up a DropBox
* Be able to sketch an object on the ‘back of a napkin’
* Be able to take a sketch and make a 3D object
* Be able to take a 2D orthographic drawing and make a 3D object
* Learn to be precise—to fully constrain your drawings
* Orient your mind to 3D communications

Here are the basics which we will work through over the semester

* Make a MegaBlok
* Run through *CAD Making Sketches*
* Quiz and test using IDEA Tests
* Assembly project
* 3D Printer project

**Grading Scale**

60% Drawings: Every assignment will be graded. Typically 100 points each.

40% Tests: These will be timed and taken without notes. Typically 100 points.

Final grade will be a 45-45-10 split between quarter grades and final exam.